

SECTION 876

TRUCK MOUNTED IMPACT ATTENUATORS

876.01. DESCRIPTION.

The work covered by this section consists of furnishing, installing, operating, maintaining, and relocating truck-mounted impact attenuators and furnishing, stockpiling, and removing repair packages in accordance with the plans and specifications.

876.02. MATERIALS.

The truck mounted impact attenuator shall consist of the following four basic components:

- A crushable cartridge encased in a shell.

- A backup.

- A backup support assembly for attaching the backup to the truck.

- A truck with a gross vehicle weight between 15,000 and 35,000 lb. (6,800 and 15,800 kg)

The impact attenuator shall be mounted on a truck chassis to provide a clearance of 11 to 13 inches (280 to 330mm) between the bottom of the shell and the roadway.

Truck-mounted attenuators must pass NCHRP #350. All certified test results shall be submitted showing that the truck mounted attenuator cartridge assembly has met all test and performance criteria as called out by NCHRP #350. The report shall be in the format of and evaluated by NCHRP #350 guidelines.

The truck-mounted impact attenuator cartridge shall have a standard trailer lighting system, including brake lights, tail lights and turn signals.

Truck-mounted attenuators shall be equipped with a 90 degree tilt system. The unit shall have a mechanical locking device to secure the truck mounted attenuator cartridge in the 90 degree position.

876.04. CONSTRUCTION METHODS.

Truck-mounted impact attenuators shall not be parked against rigid objects such as bridge piers and portable concrete barrier except as a temporary safety measure until a stationary crash cushion is installed. This use of impact attenuators shall be 72 hours maximum, or as shown in the Plans.

The truck upon which the attenuator is to be mounted shall be fully operational. The attenuator shall be installed according to manufacturer's specifications.

The truck-mounted impact attenuator replacement packages required by the plans shall be stockpiled on the project at all times when a truck-mounted attenuator is in use. The stockpile area shall be on the project, or at a location near the project, approved by the Engineer.

During the process of repairing the truck-mounted impact attenuator, furnish adequate means, acceptable to the Engineer, to provide for the safe control of traffic through the construction area or suspend all construction activities requiring the use of the attenuator until the damaged impact attenuator is restored to operation.

Any truck-mounted attenuator that becomes crushed or damaged so that it will not perform its intended purpose shall be immediately removed and repaired or replaced.

Upon completion of the project, truck-mounted attenuators that are paid for by each unit shall become the property of the state unless otherwise noted on the plans. Truck -mounted attenuators paid for on a sign day basis shall remain the property of the contractor unless otherwise noted on the plans

Payment for one sign day will constitute payment for the furnishing, operating, and maintaining one acceptable truck mounted attenuator for one day.

876.05. METHOD OF MEASUREMENT.

The quantity of *truck mounted attenuators* to be paid for by each unit will be the maximum number of truck mounted attenuators placed and in use at any one time during the life of the project.

The quantity of *truck mounted impact attenuator replacement packages* to be paid for will be the actual number of replacement packages which have been utilized during the life of the project, unless otherwise stated in the plans.

876.06. BASIS OF PAYMENT.

Truck mounted impact attenuators will be paid for at the contract unit price for “Truck Mounted Impact Attenuators.”

Truck Mounted Impact Attenuator Replacement Packages will be paid for at the contract unit price for “Truck Mounted Replacement Package.”

Accepted truck mounted attenuators, measured as provided above, will be paid for at the contract unit price as follows:

- (A) TRUCK MOUNTED ATTENUATOR EACH
- (B) TRUCK MOUNTED ATTENUATOR REPLACEMENT PACKAGE EACH
- (C) TRUCK MOUNTED ATTENUATOR SIGN DAY

Such payment shall be full compensation for furnishing all material, equipment, labor and incidentals to complete the work as specified.

SECTION 878 MODULAR GLARE SCREEN

878.01. DESCRIPTION.

This work shall consist of (1) furnishing materials and (2) installing modular glare screen units on concrete median barrier—in accordance with these specifications and in reasonably close conformity with the lines, dimensions, and locations shown on the plans or established by the Engineer.

878.02. MATERIALS.

The modular glare screen, as described herein, shall be 10 feet (3.05 m) in length and shall consist of glare screen blades, a flexible base rail, mounting brackets with hardware, and an anchor bolt system.